Chapter 3

Accessories

In This Chapter...

Accessories Overview **3-2**

AC/DC Power Adapter **3-3**

AC/DC Power Adapter Dimensions 3-5

AC/DC Power Adapter Installation 3-6

D-SUB 15-pin to Terminal Block Adapters **3-7**

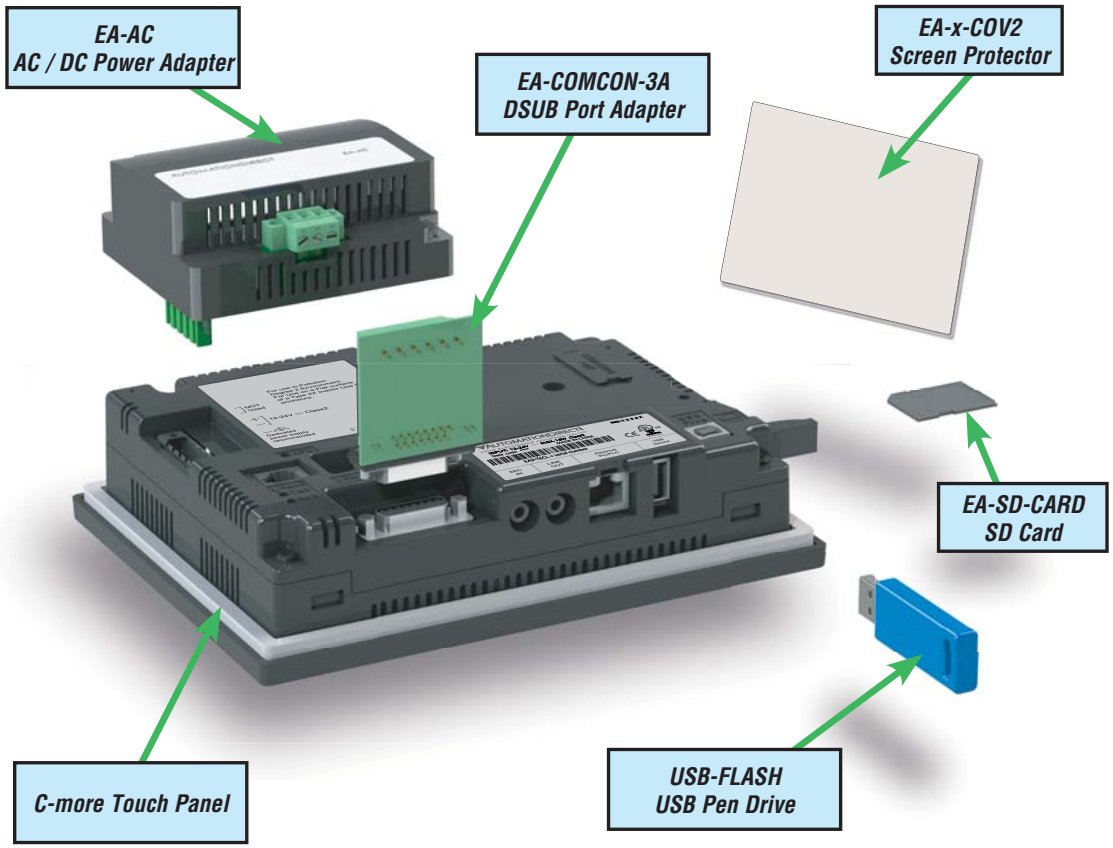
Non-glare Screen Covers **3-8**

Clear Screen Overlay Installation 3-9

SD Card **3-10**

USB FLASH Drive **3-10**

Accessories Overview



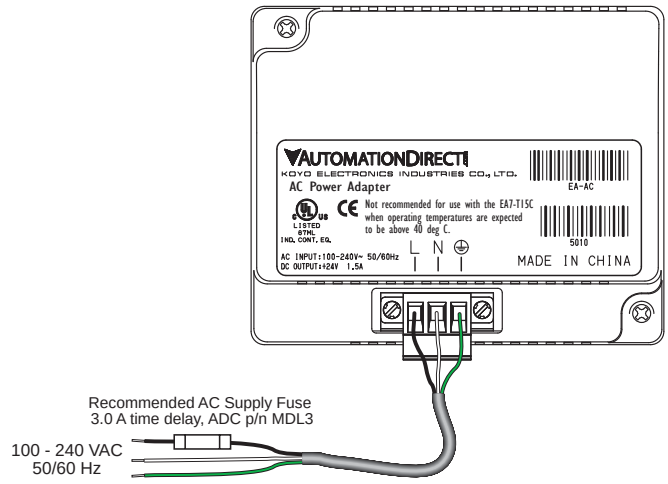
Part Number	Description
EA-AC	AC/DC Adapter for ***C-more*** EA7 and EA9 series touch panels; powered from a 100-240 VAC, 50/60 Hertz power source. Provides 24VDC at 1.5A. Power Fault features help protect data being logged to Compact Flash or SD card during power failures. ***C-more*** EA7 series panels must have firmware version 1.21 Build 6.18E or higher for proper operation.
EA-6-COV2	Non-glare protective overlay, 6-inch, protects ***C-more*** touch screen and helps reduce glare from external light sources. Compatible with ***C-more*** EA7 and EA9 series and ***C-more*** Micro-Graphic 6-inch panels. Package of 3.
EA-8-COV2	Non-glare protective overlay, 8-inch, protects ***C-more*** touch screen and helps reduce glare from external light sources. Compatible with ***C-more*** EA7 and EA9 series 8-inch panels. Package of 3.
EA-10-COV2	Non-glare protective overlay, 10-inch, protects ***C-more*** touch screen and helps reduce glare from external light sources. Compatible with ***C-more*** EA7 and EA9 series 10-inch panels. Package of 3.
EA-12-COV2	Non-glare protective overlay, 12-inch, protects ***C-more*** touch screen and helps reduce glare from external light sources. Compatible with ***C-more*** EA7 and EA9 series 12-inch panels. Package of 3.
EA-15-COV2	Non-glare protective overlay, 15-inch, protects ***C-more*** touch screen and helps reduce glare from external light sources. Compatible with ***C-more*** EA7 and EA9 series 15-inch panels. Package of 3.
EA-SD-CARD	SD memory card for non-volatile storage, 2GB industrial grade. 85 degrees C maximum operating temperature makes it suitable for data logging in industrial applications. Recommended for the ***C-more*** EA9 series touch panels.
USB-FLASH	USB Flash drive, SanDisk, 4GB (SanDisk P/N SDCZ50-004G-A46). Recommended for use with the C-more touch panels and Productivity3000 controllers.
EA-COMCON-3 or EA-COMCON-3A	D-SUB 15-pin to 6-terminal PLC serial communication port adapter to allow wire terminal connections for RS-422/485 PLC communication cable. EA-COMCON-3 is low profile and will only fit on EA9-T6CL(-R) EA-COMCON-3A is straight and fits EA-T8CL, EA9-T10CL, EA9-T12CL and EA9-T15CL

AC/DC Power Adapter

The optional ***C-more*** AC/DC Power Adapter can be used to power the ***C-more*** touch panels from a 100-240 VAC, 50/60 Hertz, voltage source. The adapter provides 24 VDC @ 1.5 A to the touch panel's DC power connector and can be conveniently secured to the touch panel with two captive screws. The adapter provides a power loss signal to the touch panel that causes the touch panel to stop writing data to SD memory devices providing a controlled shutdown for increased data logging reliability.

Part No. EA-AC

AC/DC Adapter Wiring


AUTOMATIONDIRECT
KOYO ELECTRONICS INDUSTRIES CO., LTD.
AC Power Adapter
EA-AC
Not recommended for use with the EA7-T1SC when operating temperatures are expected to be above 40 deg C.
5010
AC INPUT:100-240V~ 50/60Hz
DC OUTPUT:+24V 1.5A
L N
MADE IN CHINA
Recommended AC Supply Fuse
3.0 A time delay, ADC p/n MDL3
100 - 240 VAC
50/60 Hz

Tightening Torque	
Power supply cable torque	71 - 85 oz-in (0.5 - 0.6 Nm)
Power connector mounting torque	71 - 85 oz-in (0.5 - 0.6 Nm)
Mounting flange screw torque	57 - 71 oz-in (0.4 - 0.5 Nm)

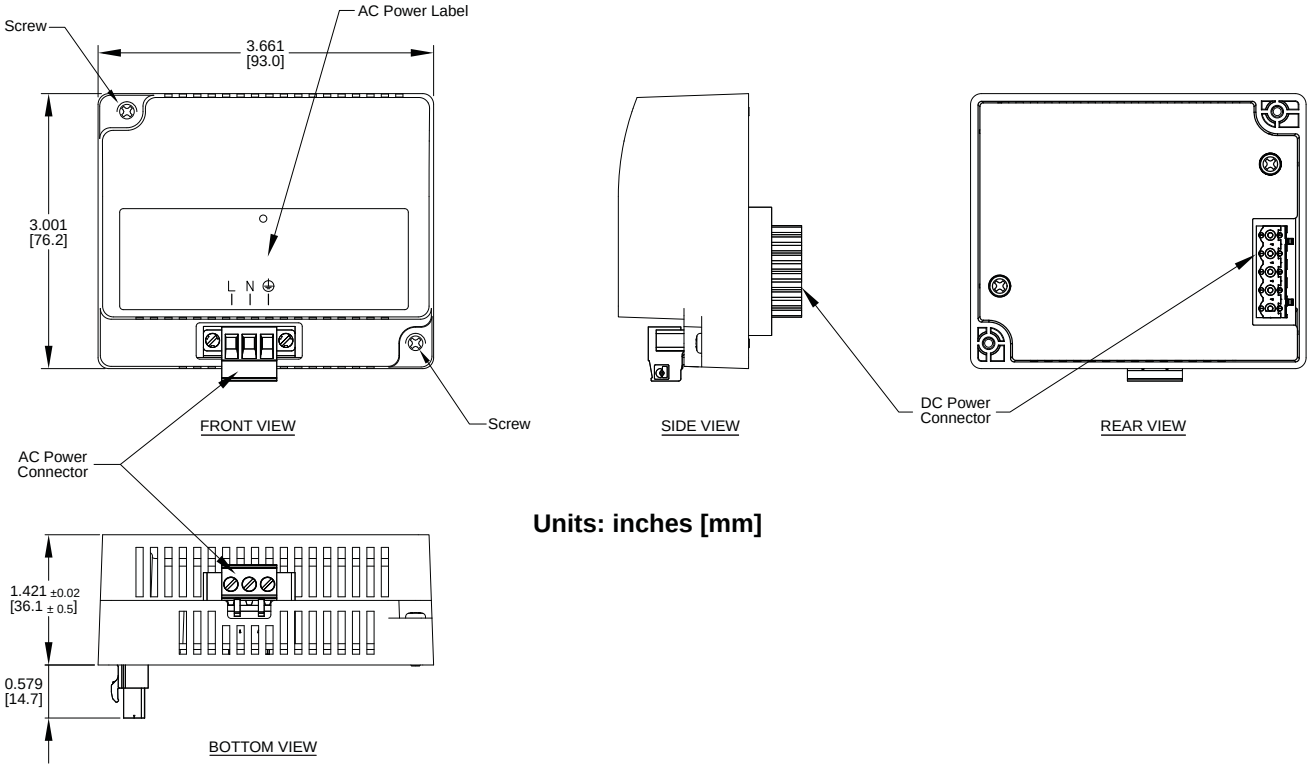
NOTE: Use 60 / 75 °C copper conductors only

AC/DC Power Adapter Specifications	
Part Number	**EA-AC**
Input Voltage & frequency	100-240 VAC; 50/60 Hertz
Operating Temperature Range	0 °C to 50 °C [32 to 122 °F] Maximum surrounding temperature rating, 50 °C
Storage Temperature Range	-20 to 60 °C [-4 to 140 °F]
Operating & Storage Humidity	10-85% RH (non-condensing)
Noise Immunity	1000 VAC p-p (Pulse width 1 µs, rise time: 1 ns) With proper ground connection on AC terminal block.
Hi-pot	1000 VAC, 1 minute With proper ground connection on AC terminal block.
Insulation Resistance	500 VDC, 10 M ohm or above With proper ground connection on AC terminal block.
Vibration	Compliant with IEC61131-2
Shock	Pulse shape: Sine half wave, Peak acceleration: 147 m/s2 (15 G), X, Y, Z: 3 directions, 2 times each
Thermal Protection	140 °C [284 °F], with autorecovery
Short Circuit Protection	85 VAC: 2.6 A, 100 VAC: 2.8 A, 264 VAC: 3.9 A
Static Electricity Discharge Resistance	Compliant with IEC61000-4-2, Contact: 4 kV, Air: 8 kV
Agency Approvals	UL508, UL Recognized, cUL, CE, EMC EN61132-2
Environment	For use in pollution degree 2 environment
Grounding	Ground resistance: less than 100 ohm
Weight	6.13 oz. [175 g]
Removable AC Power Connector	EA-AC-CON or DECA Switchlab MC101-508-03G Secure with (2) captive M2.5 screws, torque to 70 oz-in [0.5 Nm]
Output Current	Maximum 1.5 A
Inrush Current	For 100 VAC: 15 A, 3 ms or less For 240 VAC: 20 A, 3 ms or less
Recommended AC Supply Fuse	3.0 A time delay, ADC p/n MDL3
Power Supply Cable Torque	71 - 85 oz-in (0.5 - 0.6 Nm)
Mounting to Touch Panel	Secure with (2) spring loaded captive M3-20 screws, torque to 50 oz-in [0.35 Nm]

NOTE: Logic within the EA-AC will turn off the backlight instantly when a power failure is detected to allow the CPU to run longer. The backlight turns on automatically when the power returns to the C-more operating voltage.

AC/DC Power Adapter Dimensions

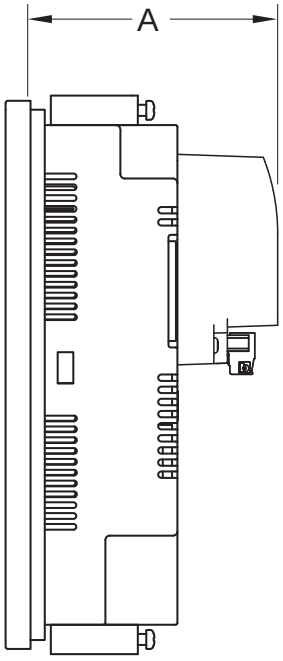
Dimensions



Units: inches [mm]

Panel Depth with AC/DC Power Adapter Installed

Units: inches[mm]



Part Number	A
EA9-T6CL-R	2.991 [76.0]
EA9-T6CL	2.991 [76.0]
EA9-T8CL	3.511 [89.2]
EA9-T10CL	3.511 [89.2]
EA9-T12CL	3.351 [85.8]
EA9-T15CL	3.351 [85.1]

AC/DC Power Adapter Installation

WARNING: This procedure should only be performed by qualified personnel who are experienced in working with electronic equipment. Take the necessary steps to prevent damage that may be caused by static electricity discharge. Disconnect input power to the touch panel before proceeding.

Preparation: Place the touch panel face down on a lint-free soft surface to prevent scratching the display screen if not already installed in a control cabinet. Remove the DC power connector if it is installed.

Insert the AC/DC power adapter into the touch panel's 5-position DC power connector.

Secure the AC/DC Power Adapter to the touch panel by tightening the two (2) spring loaded captive M3-20 screws to a torque of 50 oz-in [0.35 Nm].

Plug the wired 3-pin AC Power Connector into its mating connector on the adapter and secure in place by tightening the two (2) captive M2.5 screws to a torque of 70 oz-in [0.5 Nm].

D-SUB 15-pin to Terminal Block Adapters

These adapters are plugged into the 15-pin serial port on the rear of the panels to allow wire terminal connections for RS-422/485 PLC communication cable. The wiring of both adapters is the same.

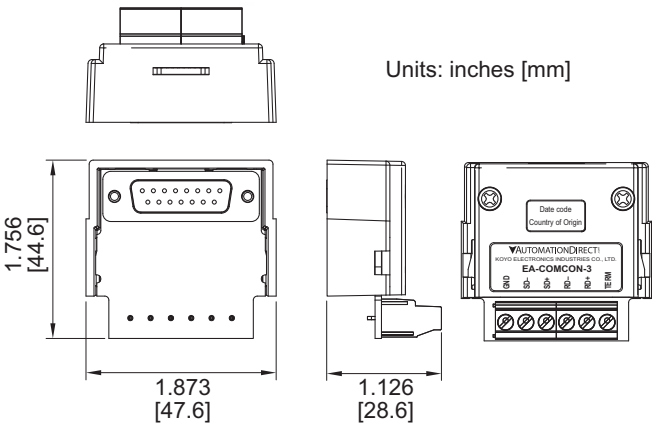
EA-COMCON-3 is used with EA9-T6CL(-R). EA-COMCON-3 is UL Recognized.

EA-COMCON-3A is NOT UL Recognized or Listed. It is used with EA9-T8CL, EA9-T10CL, EA9-T12CL and EA9-T15CL

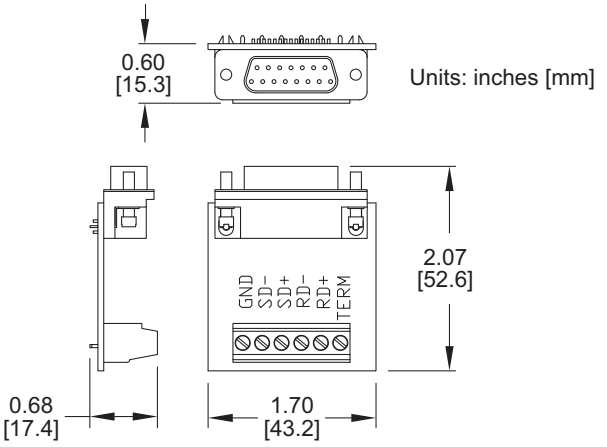
EA-COMCON-3

EA-COMCON-3A

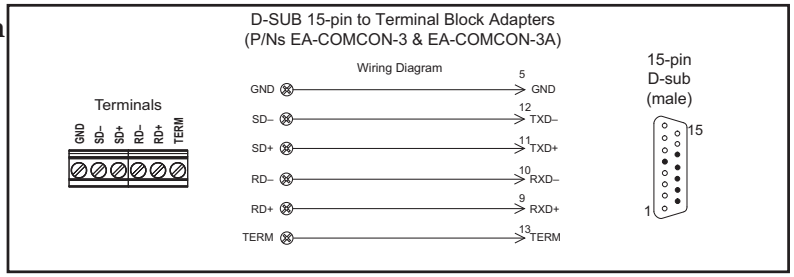
Dimensions



Dimensions



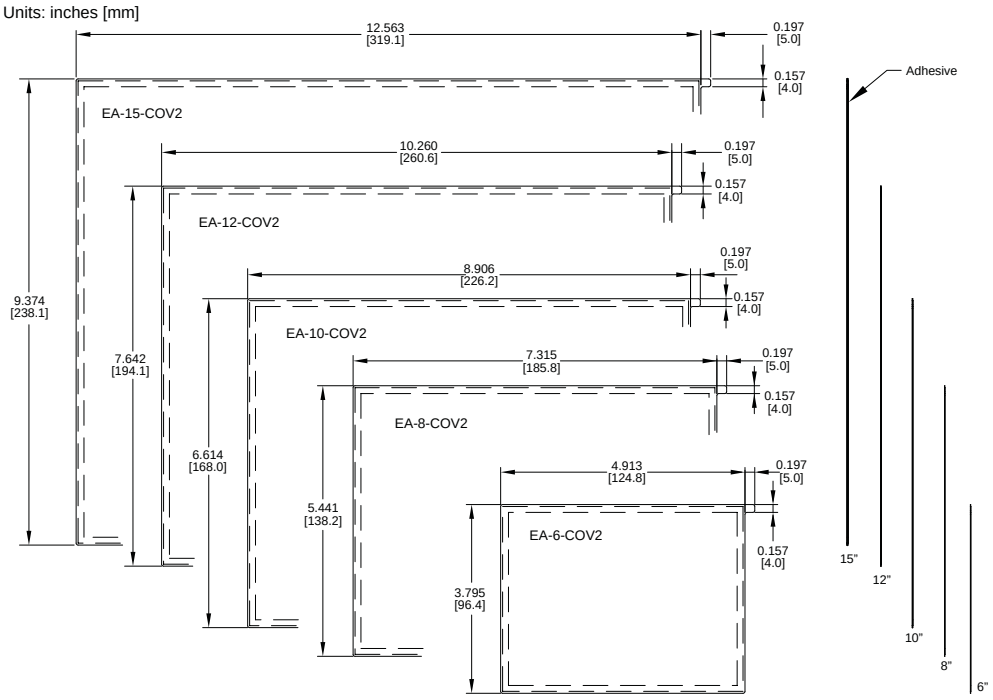
Wiring Diagram



Non-glare Screen Covers

Non Glare 6 Inch Screen Cover, protective overlay used to protect the touch screen while helping to reduce the glare from external light sources. (pk of 3)

Part No. EA-6-COV2, EA-8-COV2, EA-10-COV2, EA-12-COV2 & EA-15-COV2



Non-glare Screen Covers (cont'd)

Clear Screen Overlay Installation

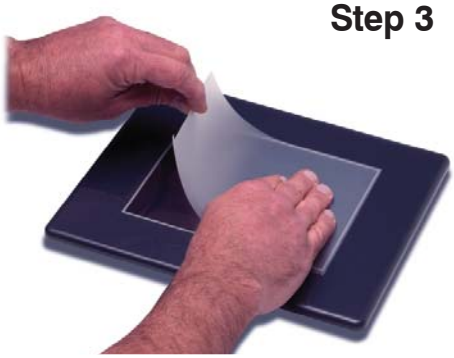
Step 1

Check to be sure that the proper size non-glare screen cover is being used on the subject touch panel. Notice that the outer perimeter of the screen cover has an adhesive band. The adhesive band will be located on the outside edge of the touch panel's white frame bordering the touch area when installed.

Step 2

Start in one corner and peel the screen cover from the backing.

Step 3



Align the screen cover over the touch panel's white frame, then start on one side and gently lay the cover over the entire touch area.

Step 4

Smooth out the screen cover and press all around the outside perimeter to secure the cover in place. The screen cover can be removed by lifting up on the small tab and gently pulling the cover away form the touch panel's surface.

Step 5

Remove the protective sheet.

NOTE: The protective cover ships with a thin protective sheet on the face of the cover that needs to be carefully removed. If your panel is not clear, the protective sheet may not have been removed.

SD Card

SD memory card for non-volatile storage, 2GB industrial grade. 85° C maximum operating temperature makes it suitable for data logging in industrial applications. Recommended for the ***C-more*** EA9 series touch panels. The SD card is the fastest option for writing data. If logged data is saved to external memory, AutomationDirect recommends using an EA-SD-CARD.

USB FLASH Drive

USB-FLASH sold by AutomationDirect has been tested with ***C-more*** panels and is Hi-Speed USB 2.0 certified.

Part No. USB-FLASH